

AMENDMENTS TO THE SPECIFICATION

IN THE SPECIFICATION:

On page 6, after "SUMMARY OF THE INVENTION", please insert the following new paragraph:

An object of the present invention is to provide a real/complex dual combination channel equalizer that overcomes the problems and limitations associated with the prior art.

Please replace page 6, line 15, through page 7, line 20, as follows:

Another ~~The~~ object of the present invention is to provide a real/complex dual combination channel equalizer which is capable of minimizing complexity of a receiver by owning construction resources of a real channel equalizer and a complex channel equalizer jointly to the maximum while maintaining performance of the real and complex channel equalizer as it is.

In order to achieve the objects ~~object~~ of the present invention, the present invention comprises a channel select unit for outputting selectively real data and imaginary data transmitted from a transmission terminal, a coefficient operation unit for outputting a real filter output value and an imaginary filter output value by multiplying a tap coefficients to each real or imaginary data outputted from the channel select unit, a tap coefficient renewal unit for renewing the tap

coefficients, a feed-forward filter output unit for removing precedence interference noise from a signal outputted from the coefficient operation unit, a subtracter for subtracting data outputted from a real decision orientation filter unit from data outputted from the feed-forward filter output unit, a real slicer unit for generating real decision data and a real error by data outputted from the subtracter, a complex real slicer unit for generating complex real decision data and a real error by data outputted from the subtracter, the real decision orientation filter unit for generating a successor interference signal by being inputted the data and error outputted from the real slicer unit and complex real slicer unit, and a complex imaginary slicer unit for generating complex imaginary decision data and an imaginary error according to a signal outputted from the coefficient operation unit.

An ~~The preferred~~ embodiment of the present invention comprises inputting real data and imaginary data to the channel select unit, outputting data selected by the channel select unit, yielding real filter output data and imaginary filter output data by multiplying the tap coefficients to the outputted data and performing operation, selecting data among the yielded data, outputting the final data of the real filter by subtracting the value outputted from the real decision orientation filter unit from the selected data, outputting real/complex decision data and an error by the outputted data, and renewing the tap coefficient by

the data outputted from the channel select unit and the error.

These and other objects of the present application will become more readily apparent from the detailed description given hereinafter. However, it should be understood that the detailed description and specific examples, while indicating preferred embodiments of the invention, are given by way of illustration only, since various changes and modifications within the spirit and scope of the invention will become apparent to those skilled in the art from this detailed description.

On page 8, please replace lines 5-11 as follows:

FIG.4 is a block diagram illustrating a construction of a real/complex dual combination channel equalizer in accordance with an embodiment of the present invention.

FIG.5 is a block diagram illustrating a construction of a tap coefficient renewal unit of a real/complex dual combination channel equalizer in accordance with an embodiment of the present invention.

DETAILED DESCRIPTION OF THE PREFERRED EMBODIMENTS

On page 17, after line 6, please insert the following new paragraph:

The invention being thus described, it will be
obvious that the same may be varied in many ways.
Such variations are not to be regarded as a departure
from the spirit and scope of the invention, and all such
modifications as would be obvious to one skilled in the
art are intended to be included within the scope of the
following claims.

IN THE ABSTRACT:

Replace the Abstract currently of record with the attached new Abstract of the Disclosure.